Smuri Production

Smart Production enables people throughout an organization to use a systems approach to product and service design, with the <u>goals</u> of:

- "mimicking" natural processes by using renewable materials and energy inputs, and eliminating the use of toxic and non-renewable materials;
- enhancing a business's long-term economic viability;
- producing products that can be recycled and that have low life-cycle environmental impacts; and
- eliminating discharges of pollutants to air, water and land.

Design Decisions Life-cycle Focus

Product/Service

Design product/service for optimum life, utility and/or value

- Optimize serviceability
- Design product or its parts to be recycled, remanufactured or upgraded

Life-cycle Environmental Impact Analysis

Conduct product life-cycle environmental impact analysis to include materials extraction and transportation, energy use, production processes, sales, and ultimate disposition

Redesign

Based on life-cycle environmental impact analysis redesign product/service as needed to reduce and eliminate impacts

• Dematerialize • Reduce energy inputs, etc.

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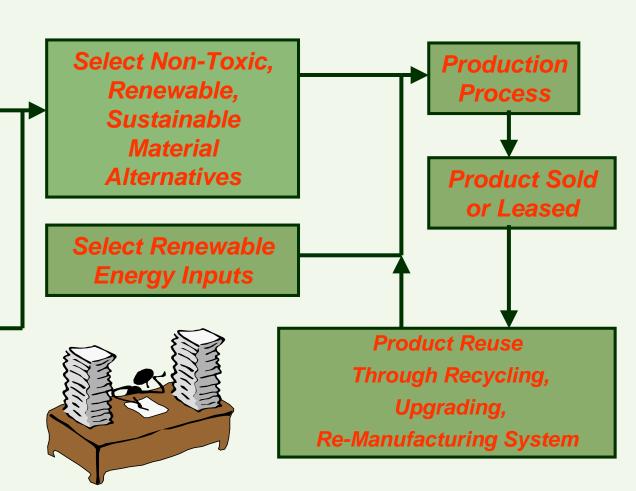
Production Decisions Materials and Energy Focus

Identify Potential Inputs of Natural Materials

Wood, Water, Fibers, Minerals, etc.

Identify Potential Inputs of Humanmade Materials

Chemicals, Compounds, Solutions, Mixtures, Composites, etc.



"Waste" Management Decisions Recycling Focus

